









































Table 8.1. Buoyant density (g/ml <sup>-1</sup> ) of macromolecules in density gradient media					
Native DNA	1.71	1.43	1.12	1.13	1.12
Denatured DNA	1.73	1.45	1.14	1.17	1.16
RNA	>1.9	1.64	1.17	1.18	1.18
Polysaccharides	1.62		1.28	1.29	
Proteins	1.3	1.3	1.27	1.27	1.26
Proteoglycans		1.46			
Data from Ford and Rickwood	1 (1983), Rickwood (	(1992) and Rickw CH, CH	ood and Patel (1996).		
	ЭН	со он со	' I '	CH2OH	























How does density gradient centrifugation of DNA/SWNTs stand up to our criteria?

- Scalable (YES)
- Compatible with SWNTs of all lengths (YES) and diameters (NO)
- Utilizes non-covalent (YES) / reversible (NO) functionalization
- Iteratively repeatable (NO)
- Economical (NO)













































How does density gradient centrifugation of surfactant/SWNTs stand up to our criteria?

- Scalable (YES)
- Compatible with SWNTs of all lengths (YES) and diameters (YES)
- Utilizes non-covalent (YES) / reversible (YES) functionalization
- Iteratively repeatable (YES)
- Economical (YES)

























